

WHAT IS CLAIMED IS:

1. An image forming apparatus having an envelope formed by first and second substrates disposed at a predetermined distance therebetween and image forming means disposed in the envelope, wherein:

a heat insulating member is disposed on a surface of the envelope in an area excepting partial surface areas of the first and second substrates.

2. An image forming apparatus according to claim 1, wherein the image forming means comprises electron emitting elements disposed on the first substrate and an image forming member disposed on the second substrate for forming an image when electrons emitted from the electron emitting element are applied.

3. An image forming apparatus according to claim 2, wherein said heat insulating member is disposed on the surface of the envelope in an area excepting the partial surface area of the second substrate.

4. An image forming apparatus according to claim 2, wherein said heat insulating member is disposed on the surface of the envelope in an area excepting the partial surface area of the first substrate.

5. An image forming apparatus according to claim

2, wherein said heat insulating member is disposed on the surface of the envelope in an area excepting the partial surface areas of the first and second substrates.

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6. An image forming apparatus according to any one of claims 1 to 5, further comprising heat dissipating means disposed in the partial surface area.

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7. An image forming apparatus according to any one of claims 1 to 5, further comprising a heat conducting member between the surface of the envelope and said heat insulating member.

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8. An image forming apparatus according to any one of claims 1 to 5, wherein said heat insulating member has a thickness in a range from 1 mm to 30 mm.

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